	Application No.	Applicant(s)
Notice of Allowability	09/899,297	YOSHIDA ET AL.
	Examiner	Art Unit
	Christopher R. Magee	2627
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. ☑ This communication is responsive to the amendment filed of the allowed claim(s) is/are 1-3,6-9 and 12-14 (renumbered of the allowed claim(s) is/are 1-3,6-9 and 12-14 (renumbered of the allowed claim(s) is/are 1-3,6-9 and 12-14 (renumbered of the allowed claim(s) is/are 1-3,6-9 and 12-14 (renumbered of the allowed claim(s) is/are 1-3,6-9 and 12-14 (renumbered of the allowed claim(s) is/are 1-3,6-9 and 12-14 (renumbered of the allowed claim(s) is/are 1-3,6-9 and 12-14 (renumbered of the allowed claim for foreign priority under the al	(OR REMAINS) CLOSED in this application of the appropriate communication GHTS. This application is subject to and MPEP 1308. 7/12/2006. Mas 1-10, respectively). Idea 35 U.S.C. § 119(a)-(d) or (f). In been received. In been received in Application No Cuments have been received in this in the communication to file a reply ENT of this application. In the attached EXAMINER is reason(s) why the oath or declaration to the submitted.	plication. If not included will be mailed in due course. THIS withdrawal from issue at the initiative matter at the initi
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	84(c)) should be written on the drawir	ngs in the front (not the back) of
each sheet. Replacement sheet(s) should be labeled as such in the 6. DEPOSIT OF and/or INFORMATION about the deposit of the sheet in the deposit of the sheet.		
attached Examiner's comment regarding REQUIREMENT I	FOR THE DEPOSIT OF BIOLOGICA	AL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892)	E Notice of Information	otent Application (DTO 450)
2. Notice of Praftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	atent Application (PTO-152)
_	Paper No./Mail Dat	ė .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. Examiner's Amenda	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance
2h Mag 7/21/06		ANGEL CASTRO PRIMARY EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05) Application/Control Number: 09/899,297

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DETAILED ACTION

Response to Amendment

1. The reply filed 07/12/2006 was applied to the following effect: All relevant objections and rejections are withdrawn as being satisfied.

Reasons for Allowance

2. Claims 1-3, 6-9 and 12-14 are allowed (renumbered as 1-10, respectively).

The following is an examiner's statement of reasons for allowance:

This application is for a THIN FILM MAGNETIC HEAD AND MANUFACTURING METHOD OF THIN FILM MAGNETIC HEAD.

• Claim 1 specifies a thin-film magnetic head, which requires:

"at least one thermal diffusion layer with a good thermal conductivity in contact with said coil insulation layer at an outside region of said upper core layer, wherein no protection layer is present on the thermal diffusion layer; and a thin coating film in contact with said at least one thermal diffusion layer, only said thin coating film being formed on said at least one thermal diffusion layer, said thin coating film being made of a material selected from Ti, Cr, Ta, Ni, Fe, Coe Au, Pt, Rh and Ru, or an alloy containing at least Ti, Cr, Ta, Ni, Fe or Co."

• Claim 9 specifies a thin-film magnetic head, which requires:

"at least one thermal diffusion layer with a good thermal conductivity formed at an outside region of said upper core layer, said at least one thermal diffusion layer being in contact with a part of said coil conductor or constituting a part of said coil conductor, wherein no protection layer is present on the thermal diffusion layer; and a thin coating film in contact with at least one thermal diffusion layer, only said thin coating film being formed on said at least one thermal diffusion layer, said thin coating film being made of a material selected from Ti, Cr, Ta, Ni, Fe, Coe Au, Pt, Rh and Ru, or an alloy containing at least Ti, Cr, Ta, Ni, Fe or Co."

Koshikawa (JP 03-162705) discloses at least one thermal diffusion layer [21] with a good thermal conductivity formed on said coil insulation layer [14] at an outside region of said upper core layer, said at least one thermal diffusion layer being in contact with a part of said coil conductor or constituting a part of said coil conductor [Fig. 1]. Koshikawa does not teach or suggest the coating film is made of a material selected from Ti, Cr, Ta, Ni, Fe, Co, Au, Pt, Rh and Ru, or an alloy containing at least Ti, Cr, Ta, Ni, Fe or Co.

Iizuka (JP 2000-057534) discloses using a thin coating film [i.e., upper shielding 14] formed on said thermal diffusion layer [i.e., heat dispersion layer 16] made of a material selected from Ti, Cr, Ta, Ni, Fe, Coe Au, Pt, Rh and Ru, or an alloy containing at least Ti, Cr, Ta, Ni, Fe or Co. [section 0030; Figure 2]. Figures 1 and 2 of Iizuka show a first protection layer 15 is present between the upper shielding 14 and the heat dispersion layer 16.

Neither Koshikawa nor Iizuka fail to teach, suggest or disclose a thin coating film in contact with least one thermal diffusion layer, as recited in each of claims 1 and 9.

Therefore, these features, in combination with other features of claims 1 and 9, are not anticipated by, nor made obvious over, the closest prior arts of record of Koshikawa (JP 03-162705), Williams et al. (US 5,949,927) and/or Gill (US 6,381,094 B1).

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Magee whose telephone number is (571) 272-

7592. The examiner can normally be reached on M-F, 8: 00 am-4: 30 pm.

5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

crm

July 20, 2006